# A.M.A.L.COLLEGE, ANAKAPALLE

Name of the Lecturer _____ Department : _____ Month : _____

| Date / Day | Class / Section | Period | Medium | Theory / Practical | Topics Covered | Methodology Adapted | No.of Students Attended | Teaching Aids Used | Student Activity Conducted | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 23/11/20 Mon Sat | II BSc A | 4 | Telugu | Theory | Subgroups problems and Theorems | Theorems / Lecture | 24 | Blackboard | Remedial class | |
| | III BSc A | 1 | | | Theorems and problems | 〃 | 18 | 〃 | | |
| 24/11/20 Tue | II BSc A | 1 | Telugu | Theory | product, union and intersection of subgroup, Examples and problems | Lecture | 38 | Blackboard | | |
| 25/11/20 Wed | III BSc A | 3 | Telugu | Theory | Rank – Nullity Theorem state and proof. | 〃 | 19 | 〃 | Student Seminar on seminar on Lagrange's Th | |
| | II BSc AB | 5,6,7 | Telugu/English | Practical | Defn of cosets, Examples Theorems. | 〃 | 25 | 〃 | | |
| 26/11/20 Thu | II BSc A | 4 | Telugu | Theory | Cosets Theorems | Lecture | 29 | Blackboard | Student Seminar | |
| | III BSc A | 5,6 | Telugu | Practical | Rank – Nullity Theorem problems and Theorems | 〃 | 19 | 〃 | | |
| 27/11/20 Fri | CL | | | | | | | | | |
| 28/11/20 Sat | II BSc A | 1 | Telugu | Theory | Order of a subgroups of a finite group. | Lecture | 18 | Blackboard | | |
| | III BSc A | 4 | Telugu | Theory | Linear Transformations Problems | Lecture | 19 | Blackboard | | |

Name of the Lecturer _____ Department : _____ Month : _____

| Date / Day | Class / Section | Period | Medium | Theory / Practical | Topics Covered | Methodology Adapted | No.of Students Attended | Teaching Aids Used | Student Activity Conducted | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 29/11/20 | SUNDAY | | | | | | | | | |
| 30/11/20 Mon | IIIBSc A | 1 | Telugu | Theory | Product of Linear Transformations & Invertible linear Transformations | Lecture | 21 | Blackboard | Remedial class | |
| | IIBSc A | 4 | " | | Lagrange's Theorem State and prove, Converse of Theorem and problems. | " | 29 | " | | |
| 01/12/20 Tue | CL | | | | | | | | | |
| 02/12/2020 Wed | IIIBSc A | 3 | Telugu | Theory | The Adjoint of Transpose of a linear Transformation Theorems | Lecture | 19 | Blackboard | | |
| | IIBSc AB | 5,6,7 | Telugu | Practical | Lagrange's Theorem Examples problems. | " | 25 | " | | |
| 03/12/20 Thu | IIIBSc A | 3 | Telugu | Theory | Sylvester's law of Nullity Th | Lecture | 20 | Blackboard | Student seminar | |
| | IIBSc A | 4 | | | Theorem and problems of Cosets | " | 24 | " | | |
| | IIIBSc A | 5,6 | | | characteristic values and characteristic vectors Definitions and problems | Lecture | 19 | Blackboard | | |
| 04/12/2020 Fri | IIBSc A | 1 | | | Def$^n$ of Normal Subgroups and Examples. | " | 30 | " | Group discussion | |
| | IBSc EM | 4 | English | Theory | Revision Class Cauchy-Euler equations. | Lecture | 21 | Blackboard | | |

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# Commissionerate Of Collegiate Education A.P

## Proforma For Teaching Plan Nov-2020

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|---|---|
| Name of the Department | Mathematics |
| Name of the Lecturer: | D. N. S. Victor |
| Course/Group | M.P.C & MEC's / B.Sc |
| Paper | VI |
| Name of the Topic | Vector Space, Subspaces |
| Hours required | 6 |
| Learning objectives | |
| Previous knowledge to be reminded | Inverse element, Identity element, Associative, Algebraic Structure, Commutative Axioms |

Topic synopsis

**Scalar multiplication**: Let $\alpha = (a_1, a_2 \cdots a_n)$ ~~$\beta = (b_1, b_2 \cdots b_n)$~~ ~~two vectors~~ be a vector in $R^n$ and $k$ be a scalar. Then we define $k\alpha = (ka_1, ka_2 \cdots ka_n)$

**Addition of vectors**: Let $\alpha = a_1, a_2 \cdots a_n$; $\beta = (b_1, b_2 \cdots b_n)$ be two vectors of $R^n$. Then we define

$$\alpha + \beta = (a_1 + b_1, a_2 + b_2 \cdots a_n + b_n)$$

**Internal Composition**: Let $F$ be a set. If $a * b \in F$ $\forall a, b \in F$. Then '$*$' is said to be an Internal composition in the set $F$.

**External composition**: Let $V$ and $F$ be two sets. If $\alpha * \alpha \in V$ $\forall \alpha \in V$ and $\forall a \in F$, then '$*$' is said to be an external composition in $V$ over $F$. Here the resulting element $a * \alpha$ is an element of the set $V$.

**Vector space**: Let $V$ be a non-empty set whose elements are called vectors. Let $F$ be any set whose elements are called scalars where $(F, +, \cdot)$ is a field

The set V is said to be a vector space if
① $(V,+)$ is an abelian group ② $\alpha\in F$ and $\alpha\in V \Rightarrow \alpha\alpha\in V$
$a(\alpha+\beta) = a\alpha+a\beta$, $a(\alpha+\beta) = a\alpha+a\beta$, $(ab)\alpha = a(b\alpha)$, $1\cdot\alpha=\alpha$

**Vector subspace:** Let $V(F)$ be a vector space and $W\subseteq V$. Then $W$ is said to be a subspace of $V$ if $W$ itself is a vector space over $F$ with the same binary operations of vector addition and scalar multiplication.

**Th1:-** Let $V(F)$ be a vector space and let $W\subseteq V$. The necessary and sufficient conditions for $W$ to be a subspace of $V$ are
i) $\alpha\in W, \beta\in W \Rightarrow \alpha-\beta\in W$; ii) $a\in F, \alpha\in W \Rightarrow a\alpha\in W$

**Th1:-** Let $V(F)$ be a vector space. A non empty set $W\subseteq V$ is subspace of $V$ iff $a,b\in F$ and $\alpha,\beta\in V \Rightarrow a\alpha+b\beta\in W$

**Th2:-** A nonempty set $W$ is a subset of vector space $V(F)$. $W$ is s.s of $V$ with $a\in F$ and $\alpha,\beta\in V \Rightarrow a\alpha+\beta\in W$

**Th3:-** The intersection of any subspaces $W_1$ and $W_2$ of vector space $V(F)$ is also a subspace.

**Th4:-** The union of two subspaces is a subspace iff one is contained in other.

**Def:-** Linear sum: $W_1+W_2 = \{\alpha_1+\alpha_2 \mid \alpha_1\in W_1, \alpha_2\in W_2\}$

**Th1:-** If $W_1$ and $W_2$ are any two s.s of V.S $V(F)$ then $W_1+W_2$ is a subspace of $V(F)$

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| Examples/illustrations | ① The set $W$ of ordered triads $(x,y,0)$ where $x,y\in F$ is a subspace of $V_3(F)$<br>② Let $P_1, P_2$ be the fixed elements of a field $F$. Show that the set $W$ of all triads $(x,y,z)$ of elements of $F$ satisfying $y=P_1x$, $z=P_2x$ is a vector subspace of $V_3(F)$ |
| Additional inputs | Scalar multiplication, Addition of vectors, Multiplication and additive inverse |
| Teaching aids used | Black Board, Online |
| References cited | M.L. Khanna |
| Student activities planned after the teaching | Old Question Paper Solved<br>Weekly Test Conducted<br>Student Seminar<br>Remedial class |
| Activity planned outside the classroom | Assignment work<br>Study Project |
| Any other activity | Tutorial |

2020 - 21 Sem - III

## ANNUAL CURRICULAR PLAN 2020-2021

Name of the College : A.M.A.L. College, Anakapalle | Name of the Department : Mathematics

Name of the Lecturer : D.W.J. Victor (8179317584) | Class | Year : II. B.Sc | Paper : III (Abstract Algebra)

| Sl.No. | Month | week | Hours Available | Syllabus Topic | Additional Input / Value Addition Provided | Curricular Activity | | | | Co-Curricular Activity | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Activity Conducted | Hours allotted | Whether conducted | If not, alternate date | Activity Conducted | Hours allotted | Whether conducted | If not, alternate date | |
| | | | | Group Abstract Algebra | | | | | | | | | | |
| 1 | NOVEMBER | II | 9 | Binary operation, Algebraic structure semigroup, Monoid. Group definition and elementary properties, Problems on Group and abelian group | Number system | Theory 5<br>Practical 3 | | Conducted | | Problem solving session | 1 | Conducted | | Covered |
| 2 | | III | 8 | Addition modulo m, congruences multiplication modulo. Law of integral exponents - theorems, order of an element of a group, Problems and Theorems | Division Algorithm | Theory 4<br>Practical 3 | | Conducted | | Seminar | 1 | Conducted | | Covered |
| 3 | | IV | 5 | Subgroups: complex def multiplication of two complexes, Inverse of complex Subgroup definition and exples Theorem | | Theory 2<br>Practical 3 | | Conducted | | — | — | | | Covered |
| 4 | | V | 9 | Product, Union and intersection of subgroups. cosets, Properties of cosets Index of a subgroups of a finite Groups | | Theory 5<br>Practical 3 | | Conducted | | Group Discussion | 1 | Conducted | | Covered |
| 5 | | V | 1 | Lagranges Theorem and Applications | Division algorithm law | Theory 1 | | Conducted | | — | — | | | Covered |

Signature of the Lecturer

Signature of the Lecturer In-charge

Signature of the Principal

# A.M.A.L.COLLEGE, ANAKAPALLE

Name of the Lecturer Dr. P. Venkata Sudhakar Department : ENGLISH Month : January 2021

| Date / Day | Class / Section | Period | Medium | Theory / Practical | Topics Covered | Methodology Adapted | No.of Students Attended | Teaching Aids Used | Student Activity Conducted | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/01/21 Saturday | | | | | — | | | | | |
| 11/01/21 monday | IIBSc&BC | 1 | Theory | English | Mind Map | Lecture | | Blackboard | | |
| 12/01/21 Tuesday | | | | | — | | | | | |
| 13/01/21 | | | | | Casual Leave | — | | — | | |
| 14/01/21 | | | | | Casual leave | — | | — | | |
| 20/01/21 wednesday | IIBSc&BC | 4 | Theory | English | Mind Map | Lecture | | Blackboard | | |
| 21/01/21 Thursday | IIBcom | 5 | | | Picture discription * class Room Seminar | Lecture | | Blackboard | | |

# A.M.A.L.COLLEGE, ANAKAPALLE

Name of the Lecturer Dr. P. Venkata Sudhakar Department : ENGLISH Month : January 2021

| Date / Day | Class / Section | Period | Medium | Theory / Practical | Topics Covered | Methodology Adapted | No.of Students Attended | Teaching Aids Used | Student Activity Conducted | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 28/01/21 Friday | IIBcom | 2 | English | Theory | Note Making | lecture | | Blackboard | | |
| | IIBSc.A | 5 | English | Theory | Kanyasulkam | lecture | | Blackboard | | |
| 28/01/21 Saturday | | | | | — | | | | | |
| 25/01/21 monday | IIBscBC | 1 | English | Theory | Note Making | lecture | | Blackboard | | |
| | | | | | | lecture | | Blackboard | | |
| 27/01/21 wednesday | IIBscBC | 4 | English | Theory | Picture Discriptions | lecture | | Blackboard | | |
| 28/01/21 Thursday | IIBcom | 5 | English | Theory | Note Making | lecture | | Blackboard | | |
| 29/01/21 Friday | IIBcom | 2 | English | Theory | Kanyasulkam | lecture | | Blackboard | | |
| | IIBscBC | 5 | English | Theory | Note making | lecture | | Blackboard | | |
| 30/01/21 Saturday | | | | - | Local Festival — | — | | | — | |

# Commissionerate of Collegiage Education. A.P.

Proforma for Teaching Plan

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|---|---|
| Name of the Department | English |
| Name of the Lecturer | Dr. P. Venkata Sudhakar |
| Course / Group | II Degree |
| Paper | 3rd Semester |
| Name of the Topic | Why People Love Technology |
| Hours required | 6 |
| Learning Objectives | Students Can understand Technology. |
| Previous knowledge to be reminded | ICS, Reminded. |
| Topic Synopsis<br>Prose: | "Why People Love Technology"<br>is an Interview with Genevieve Bell<br>Alexis Madrigal is an American Journalist. In this lesson, Madrigal Interviews Genevieve Bell, an Anthropologist in a technologist's world. She is developing Products that will reinvent the way we experience Computi<br>There is a misconception about early adopters of Computers. Women are thought be in minority in using Computer. But data shows that women are 44 to 45 percent of internet users. Facebook, Skype extentions of Social Communication. When we plan for |

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| Topic Synopsis | future, we have no invent the future. People say that computers are ubiquitous. But reality shows otherwise. People are using. We move between the virtual and real a great deal. Everything is going to be digitalized. The early adopters of ipad are using it in different ways. A woman was using it to cooks as well as a honey well kitchen computer. Many exciting and unconvention innovations users are changing the modern technology. |
| Example / illustrations | Clearly explained how technology is useful in the present society |
| Additional inputs | → have given |
| Teaching Aids used | Blackboard, |
| References cited | Google, Youtube, Pencil |
| Student Activity planned after the teaching | Assignment is given |
| Activity planned outside the Class room. If any | Home work is given |
| Any other activity | Dealing with |

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II Degree – Third Semester

## ANNUAL CURRICULAR PLAN 2020-2021

Name of the College : A.M.A.L. College, Anakapalle

Name of the Department : English

Name of the Lecturer : Dr. P. Venkata Suchakar

Class

Year : 2020 - 2021

Paper : English

| Sl.No. | Month | week | Hours Available | Syllabus Topic | Additional Input / Value Addition Provided | Curricular Activity | | | | Co - Curricular Activity | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Activity Conducted | Hours allotted | Whether conducted | If not, alternate date | Activity Conducted | Hours allotted | Whether conducted | If not, alternate date | |
| | DECEMBER | 1 | 5 | Prose : Why People Love Technology.<br>Poetry : Digging<br>One Act Play : Kanyasulkam<br>Grammar : Comprehensions & Passages | youtube | lesson explained | 4 | yes | | Quiz | 1 | yes | | |
| | | 2 | 5 | Prose : Why People Love Technology<br>Poetry : Digging<br>One Act Play : Kanyasulkam<br>Grammar : Comprehensions & Passages | youtube | lesson explained | 4 | yes | | Seminar | 1 | yes | | |
| | | 3 | 5 | Prose : Why People Love Technology<br>Poetry : Digging<br>One Act Play : Kanyasulkam<br>Grammar : Comprehensions & Passages | youtube | lesson explained | 4 | yes | | G.D | 1 | yes | | |
| | | 4 | 5 | Prose : Why People Love Technology<br>Poetry : Digging<br>One Act Play : Kanyasulkam<br>Grammar : Comprehension Passage | youtube | lesson explained | 4 | yes | | Study Project<br>Roleplay | 1 | yes | | |
| | | 5 | 5 | Prose : Why People Love Technology<br>Poetry : Digging<br>One Act Play : Kanyasulkam<br>Grammar : Comprehension Passage | youtube | lesson explained | 4 | yes Assign | | Assignment | 1 | yes | | |

P. Suchakar
Signature of the Lecturer

Signature of the Lecturer In-charge

Signature of the Principal